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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/083,774	02/27/2002	Thomas A. Millott	67,008-038/S-5451	5463
26096 75	90 01/06/2005	EXAMINER		INER
CARLSON, GASKEY & OLDS, P.C. 400 WEST MAPLE ROAD			PENDLETON, BRIAN T	
SUITE 350			ART UNIT	PAPER NUMBER
BIRMINGHAM, MI 48009			2644	
			DATE MAILED: 01/06/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/083,774	MILLOTT ET AL.				
Office Action Summary	Examiner	Art Unit				
	Brian T. Pendleton	2644				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timply within the statutory minimum of thirty (30) days d will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 27	February 2002.					
	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
 4) Claim(s) 1-25 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 12-15 is/are allowed. 6) Claim(s) 1-3,16 and 20 is/are rejected. 7) Claim(s) 4-11,17-19 and 21-25 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
 9) ☐ The specification is objected to by the Examination 10) ☐ The drawing(s) filed on 27 February 2002 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Examination 11. 	re: a)⊠ accepted or b)□ objected or b)□ objected or b)□ objected or b)□ objected or abeyance. See otion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary (
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	Paper No(s)/Mail Date 5) Notice of Informal Pa 6) Other:	te atent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Southward et al, US Patent 5,627,896. Southward et al disclose an active noise control system comprising an input sensor for measuring a physical variable, a processor for generating a plurality of command signals over time based upon the input sensor signal and a control weighting W whereby the control weighting W is varied and limited (see figure 5). Claims 1 and 20 are met.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2, 3, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Southward et al in view of Rossetti, US Patent 6,002,778. Southward does not disclose a plurality of force generators are activated based upon a plurality of command signals. Rossetti 6,002,778 discloses an active structural control system and method comprising a plurality of sensors 42 for sensing noise and force generators 12 for controlling the noise heard inside an aircraft cabin based on command signals related to the sensed noise. It would have been obvious

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to one of ordinary skill in the art at the time of invention to incorporate a plurality of sensors and force generators, as taught by Rossetti, for the purpose of providing the noise control system of Southward in an environment that has multiple sources of noise disturbance, which was well known at the time of invention. Claims 2 and 16 are met. As to claim 3, the modified Southward apparatus would have a plurality of command signals for the plurality of force generators, with a plurality of control weighting components associated with the command signals. The teaching of varying the control weights over time would be established for each command signal.

Allowable Subject Matter

Claims 4-11 and 17-19 and 21-25 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 12-15 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian T. Pendleton whose telephone number is (703) 305-9509. The examiner can normally be reached on M-F 7-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Le Huyen can be reached on (703) 305-4844. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brian T. Pendleton Examiner Art Unit 2644

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